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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/810,154	03/25/2004	Ban Kuan Koay	70030659-1	8362
7590 06/12/2007 AGILENT TECHNOLOGIES, INC.			EXAMINER	
Legal Department, DL429 Intellectual Property Administration P. O. Box 7599 Loveland, CO 80537-0599			PINHEIRO, JASON PAUL	
			ART UNIT	PAPER NUMBER
			3714	
			MAIL DATE	DELIVERY MODE
	•		06/12/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

			,
	Application No.	Applicant(s)	
	10/810,154	KOAY ET AL.	
Office Action Summary	Examiner	Art Unit	
	Jason Pinheiro	3714	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet v	vith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may a vill apply and will expire SIX (6) MO , cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status		·	
1) Responsive to communication(s) filed on 03/05	<u>5/2007</u> .		
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.		
3) Since this application is in condition for allowar	•	•	
closed in accordance with the practice under E	ix parte Quayle, 1935 C.	D. 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-9</u> is/are pending in the application.			
4a) Of the above claim(s) is/are withdraw	vn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-9</u> is/are rejected.			
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	r election requirement		
8) Claim(s) are subject to restriction and/or	election requirement.		
Application Papers			
9)☐ The specification is objected to by the Examine	r.		
10) The drawing(s) filed on is/are: a) acce			
Applicant may not request that any objection to the	- · · ·		
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex			
•	animor. Note the attacht	Office Action of John 1 10-102.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
a) All b) Some * c) None of:	. h h		
1. Certified copies of the priority documents2. Certified copies of the priority documents		Application No	
3. Copies of the certified copies of the prior			
application from the International Bureau	•		
* See the attached detailed Office action for a list	of the certified copies no	t received.	
Attachment(s)	_		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) (s)/Mail Date	
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date		Informal Patent Application	

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DETAILED ACTION

1. After the amendment filed on 03/05/2007, Claims 1, and 3 were amended. As a result claims 1-9 are pending.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Drake (7046229).

Regarding claim 1: Drake '229 discloses a game controller comprising: a moveable element (Col. 6, Lines 20-33) (Fig. 3) having an optically readable pattern on a surface thereof (Col. 11, Lines 14-24), said moveable element moving relative to a fixed position and having a position characterized by a relative position of said moveable element relative to said fixed position (Col. 7, Line 11 – Col. 8, Line 3); an imaging element that forms an image of a sub-area on said surface, said sub-area being determined by said relative position of said moveable element relative to said fixed position (Col. 11, Lines 14-42); a memory for storing a map that specifies said readable pattern in each sub-area on said

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surface that can be imaged by said imaging element (Col. 6, Line 21 – Col. 7, Line 3)(Fig. 3); and a controller for comparing said image to said map to determine said position of said moveable element (Col. 11, Lines 14-42).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Drake (US 7046229) in view of Chen et al (US 2003/0020690).

Drake discloses that which is discussed above. However Drake does not disclose that said pattern comprises a plurality of randomly distributed spots.

Chen '690 does disclose that said pattern comprises a plurality of randomly distributed spots (Paragraph [0023])(Fig. 9).

Therefore it would have been obvious to one skilled in the art at the time the invention was made to integrate the teachings of Chen into the teachings of Drake in order to create a more accurate game controller.

6. Claims 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Drake (US 7046229) in view of Liebenow (US 6078312).

Drake discloses that which is discussed above. However Drake does not disclose that said controller generates a signal indicative of a position of said

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movable element in terms of first and second orthogonal displacements from a reference position.

Liebenow '312 does disclose that said controller generates a signal indicative of a position of said movable element in terms of first and second orthogonal displacements from a reference position (Col. 5, Line 11 – Col. 6, Line 37);

Therefore it would have been obvious to one skilled in the art at the time the invention was made to integrate the teachings of Liebenow into the teachings of Drake in order to create a more accurate and user enjoyable game controller.

7. Claims 4-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Drake (US 7046229) as applied to claim 1 above, in view of Liebenow (US 6078312) and further in view of Rosenberg (US 2005/0009605).

Regarding claim 4: Drake and Liebenow disclose that which is discussed above. However neither Drake nor Liebenow disclose that said controller generates a signal indicative of a rotation of said moveable element about a predetermined axis on said moveable element.

Rosenberg '605 does disclose that said controller generates a signal indicative of a rotation of said moveable element about a predetermined axis on said moveable element (Paragraph [0027])(Fig. 2).

Therefore it would have been obvious to one skilled in the art at the time the invention was made to integrate the teachings of Liebenow into the teachings of Drake in order to create a more accurate and user enjoyable game controller.

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Regarding claim 5: Drake, Liebenow, and Rosenberg disclose that which is discussed above. Liebenow further discloses that said moveable element comprises a handle (Fig. 5).

Regarding claim 6: Drake, Liebenow, and Rosenberg disclose that which is discussed above. Liebenow further discloses that said handle comprises a shaft with a shaft axis parallel to said predetermined axis (Fig. 5).

Regarding claim 7: Drake, Liebenow, and Rosenberg disclose that which is discussed above. Although Drake does not specifically disclose a push button having a state that is sensed by said controller, it is well known in the art that joysticks often include additional buttons to provide additional inputs for the user, in order to make a more versatile game device for a player to use.

8. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Drake (US 7046229) in view of Rosenberg (US 2005/0009605).

Regarding claim 8: Drake discloses that which is discussed above.

However Drake does not disclose that said map comprises a plurality of submaps that are rotated relative to one another.

Rosenberg does disclose that said map comprises a plurality of sub-maps that are rotated relative to one another (Paragraph [0027]).

Therefore it would have been obvious to one skilled in the art at the time the invention was made to integrate the teachings of Rosenberg into the teachings of Drake in order to create a more accurate game controller.

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9. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Drake (US 7046229).

Regarding claim 9: Drake discloses that which is discussed above. Drake further discloses that a plurality of search processors, each search processor comparing a portion of said map with said image formed by said imaging element (Col. 11, Lines 14-60). Although Drake does not specifically disclose a plurality of search processors, it is well known in the computer art to use multiple processors to conduct a specific task to increase the speed of completing the computing task.

Response to Arguments

- 10. Applicant's arguments, see pages 4-9, filed 03/05/2007, with respect to the rejection(s) of claim(s) 1-9 under 35 U.S.C. 103(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of different interpretation of the previously applied reference, and previously cited references.
- 11. Applicant's arguments, see page 4, filed 03/05/2007, with respect to objection of claims 1, and 3 have been fully considered and are persuasive. The objections of claims 1, and 3 have been withdrawn.

Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason Pinheiro whose telephone number is 571-270-1350. The examiner can normally be reached on M - F 8:00 AM - 4 PM;

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pezzuto can be reached on (571) 272-6996. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JP 05/31/2007

> KIM NGUYEN PRIMARY EXAMINER